

Data Path : Z:\HPCHEM1\BNA E\DATA\BE051518\
 Data File : BE096579.D
 Acq On : 15 May 2018 15:35
 Operator : SJ/JU
 Sample : J2604-14DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILDL

Manual Integrations
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Quant Time: May 16 05:50:24 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE051518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 15 13:02:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.34	152	714	0.40	ng	0.00
7) Naphthalene-d8	11.17	136	2825	0.40	ng	-0.01
13) Acenaphthene-d10	14.92	164	1703	0.40	ng	0.00
19) Phenanthrene-d10	17.64	188	3764	0.40	ng	0.00
27) Chrysene-d12	21.73	240	3790	0.40	ng	0.00
34) Perylene-d12	24.33	264	3574	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.85	112	52	0.03	ng	0.00
5) Phenol-d6	7.51	99	87	0.03	ng	0.00
8) Nitrobenzene-d5	9.54	82	108	0.04	ng	0.01
11) 2-Methylnaphthalene-d10	12.71	152	170	0.04	ng	0.00
14) 2,4,6-Tribromophenol	16.40	330	30	0.04	ng	0.00
15) 2-Fluorobiphenyl	13.56	172	239	0.03	ng	0.00
25) Fluoranthene-d10	19.62	212	1772	0.04	ng	0.00
29) Terphenyl-d14	20.18	244	347	0.04	ng	0.00

Target Compounds					Qvalue	
9) Naphthalene	11.22	128	61008	2.053	ng	99
12) 2-Methylnaphthalene	12.78	142	4576	0.898	ng	94
16) Acenaphthylene	14.65	152	7809	0.878	ng	99
17) Acenaphthene	14.98	154	8578	1.584	ng	95
18) Fluorene	15.96	166	1494	0.222	ng	# 79
23) Phenanthrene	17.67	178	16886	1.598	ng	99
24) Anthracene	17.77	178	13746	1.398	ng	# 94
26) Fluoranthene	19.65	202	4833	0.382	ng	# 96
28) Pyrene	20.00	202	4698	0.687	ng	97
30) Benzo(a)anthracene	21.72	228	10928	0.938	ng	96
31) Chrysene	21.77	228	8323	0.686	ng	98
32) Bis(2-ethylhexyl)phthalate	21.58	149	3843	0.154	ng	# 99
33) Indeno(1,2,3-cd)pyrene	27.10	276	4992	0.429	ng	# 94
35) Benzo(b)fluoranthene	23.52	252	8070	0.732	ng	# 89
36) Benzo(k)fluoranthene	23.58	252	4203m	0.360	ng	
37) Benzo(a)pyrene	24.21	252	9461	0.898	ng	# 91
38) Dibenzo(a,h)anthracene	27.11	278	4737	0.492	ng	97
39) Benzo(a,h,i)perylene	27.96	276	8159	0.809	ng	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

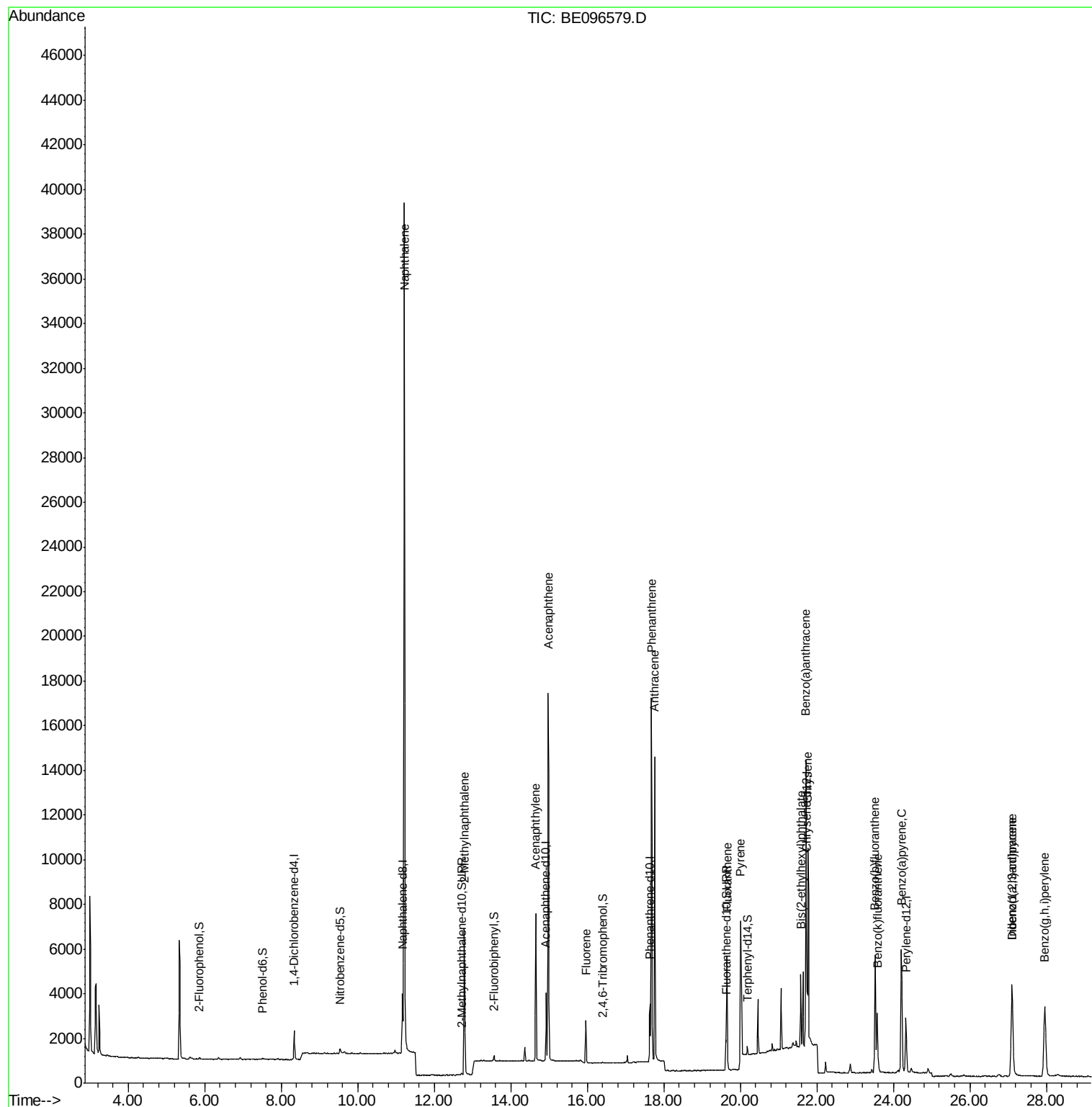
Data Path : Z:\HPCHEM1\BNA E\DATA\BE051518\
Data File : BE096579.D
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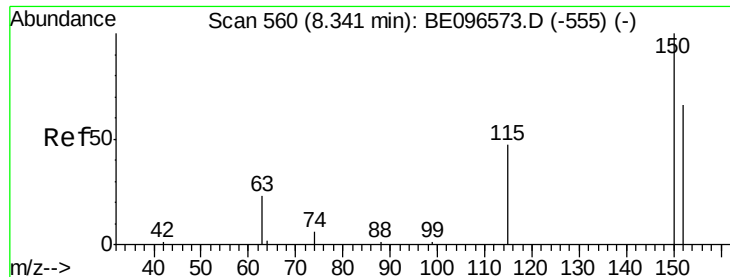
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

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Quant Time: May 16 05:50:24 2018
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE051518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

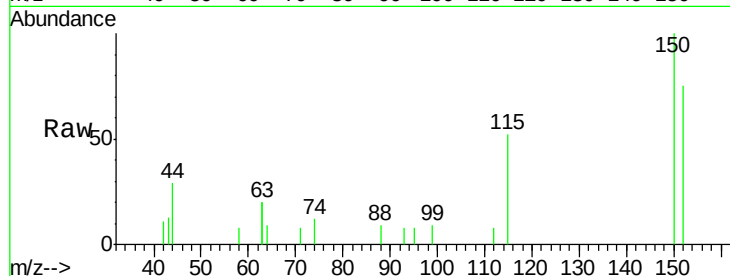
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.34 min Scan# 560
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

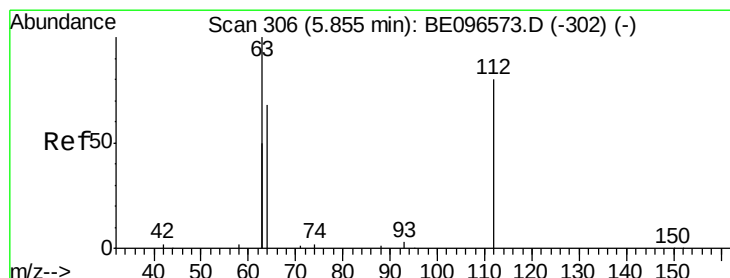
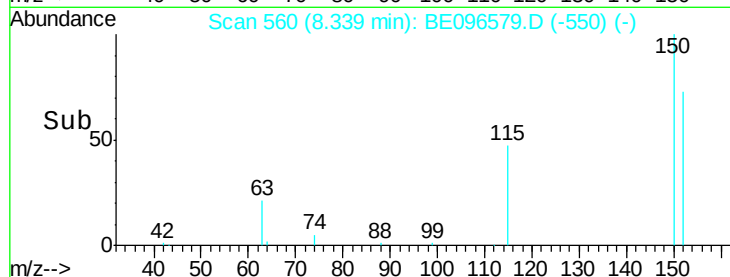
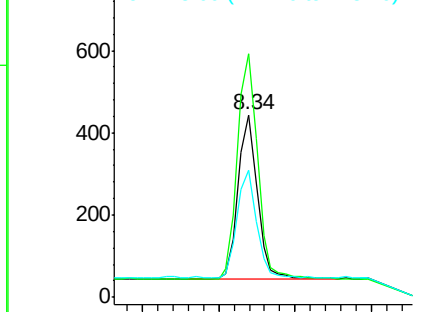
Tot Ion	Ratio	Lower	Upper
152	100		
150	133.3	117.2	175.8
115	69.6	57.0	85.6

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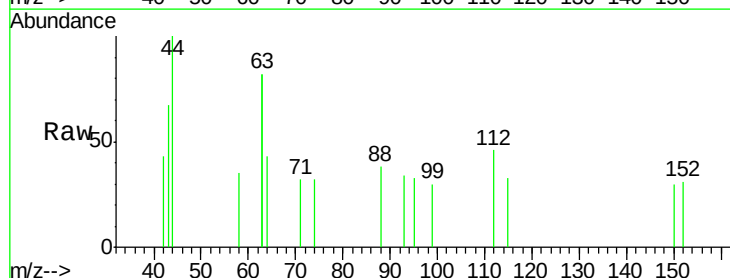
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



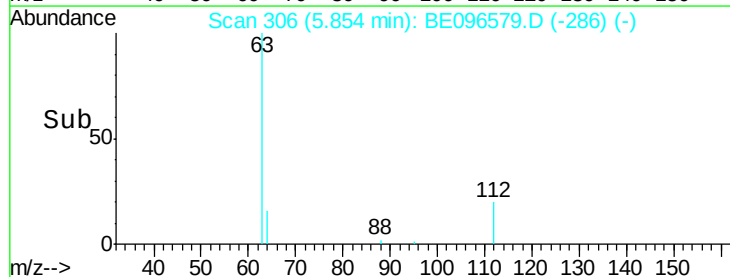
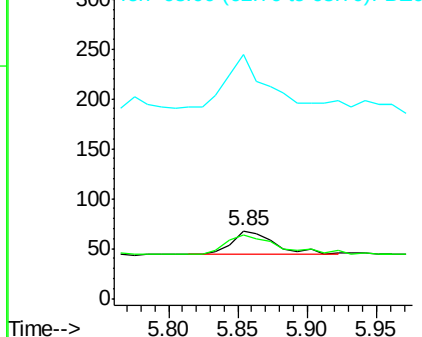
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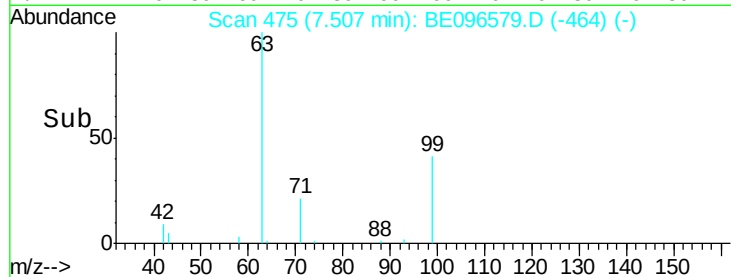
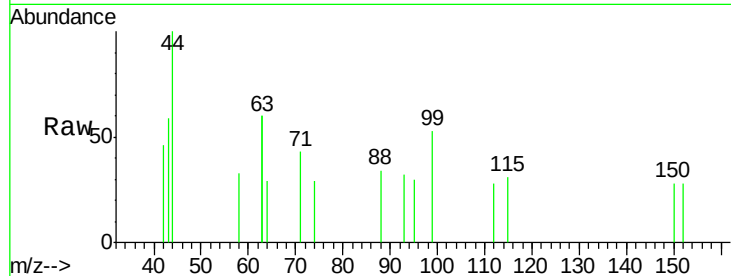
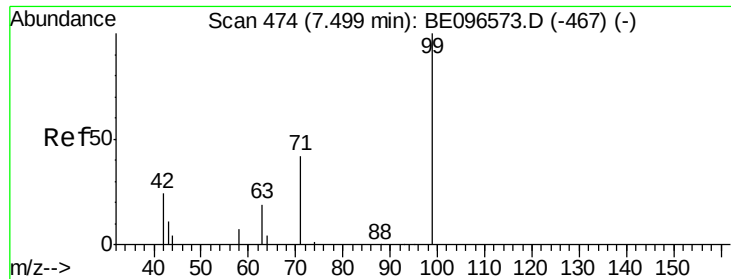
2-Fluorophenol
Concen: 0.026 ng
RT: 5.85 min Scan# 306
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	105.8	60.1	90.1#
63	225.0	116.8	175.2#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.031 ng

RT: 7.51 min Scan# 475

Delta R.T. 0.01 min

Lab File: BE096579.D

Acq: 15 May 2018 15:35

Tot Ion:	99	Resp:	87
Ion	Ratio	Lower	Upper
99	100		
42	35.6	20.2	30.2#
71	52.9	28.4	42.6#

Instrument :

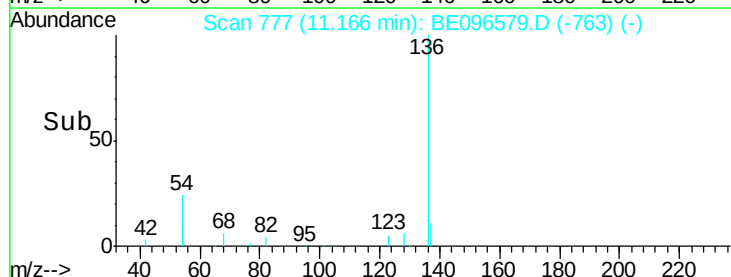
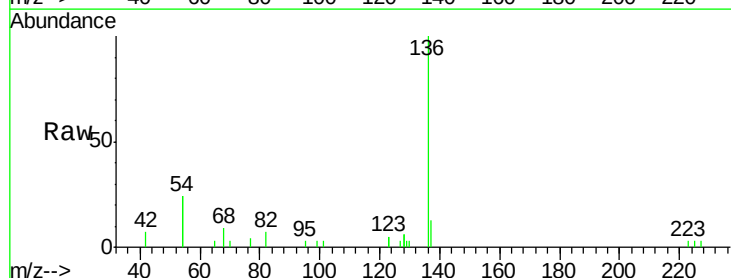
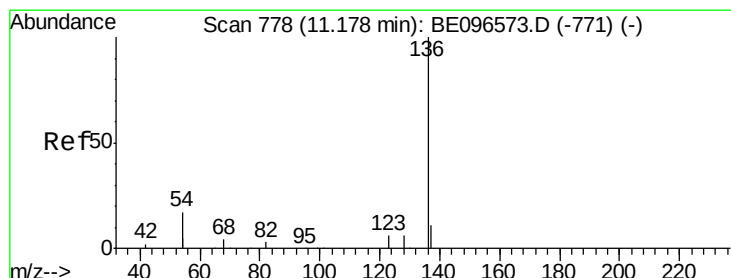
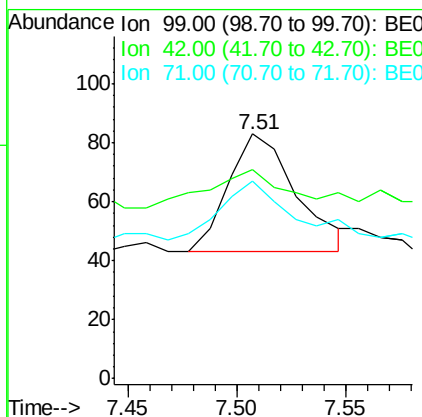
BNA_E

ClientSampled :

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#7

Naphthalene-d8

Concen: 0.400 ng

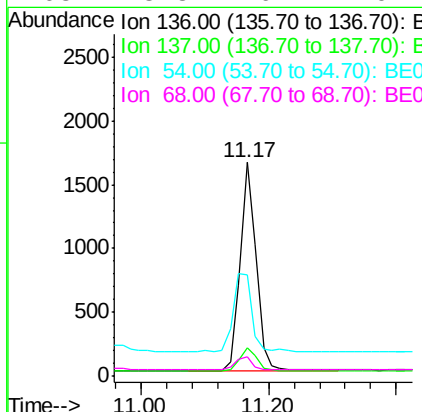
RT: 11.17 min Scan# 777

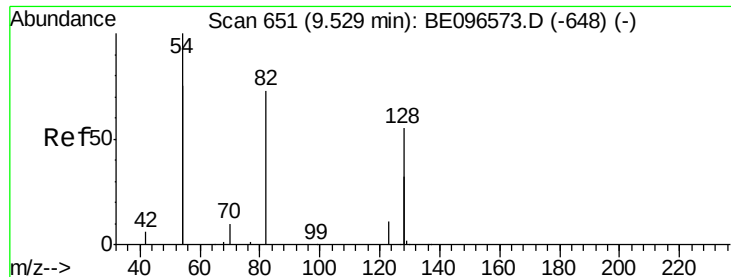
Delta R.T. -0.01 min

Lab File: BE096579.D

Acq: 15 May 2018 15:35

Tgt Ion:	136	Resp:	2825
Ion	Ratio	Lower	Upper
136	100		
137	13.0	9.5	14.3
54	47.4	29.1	43.7#
68	8.8	6.2	9.2





#8

Nitrobenzene-d5

Concen: 0.036 ng

RT: 9.54 min Scan# 652

Delta R.T. 0.01 min

Lab File: BE096579.D

Acq: 15 May 2018 15:35

Instrument :

BNA_E

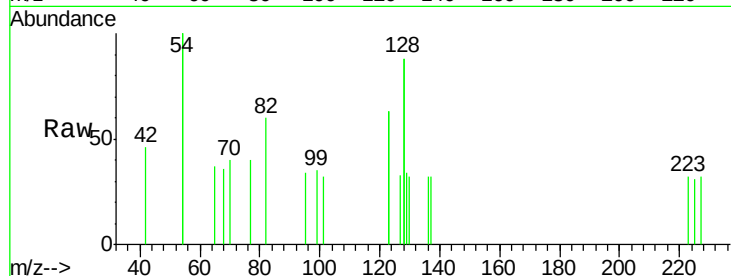
ClientSampleId :

PT-PAH-SOILDL

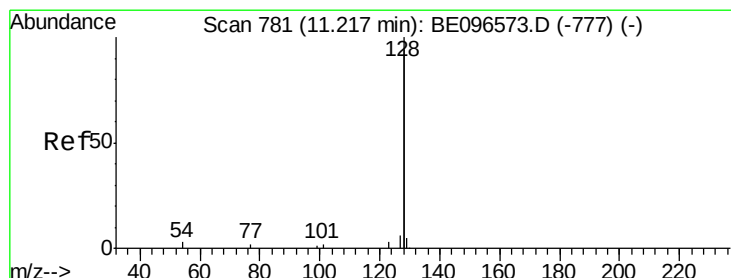
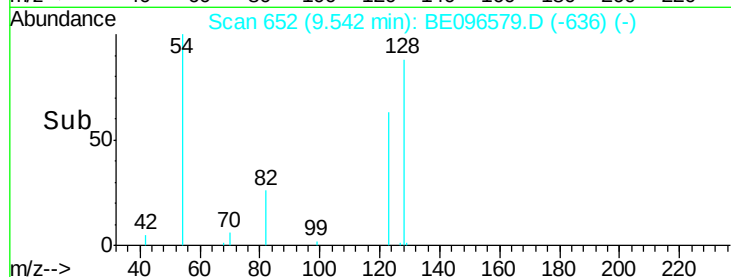
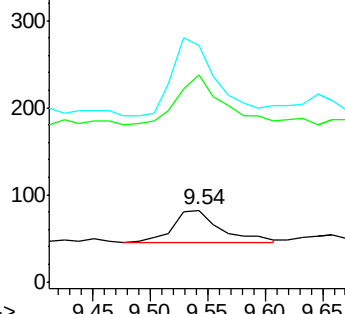
Tot Ion:	82	Resp:	108
Ion	Ratio	Lower	Upper
82	100		
128	290.2	150.0	225.0#
54	331.7	154.2	231.4#

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Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 2.053 ng

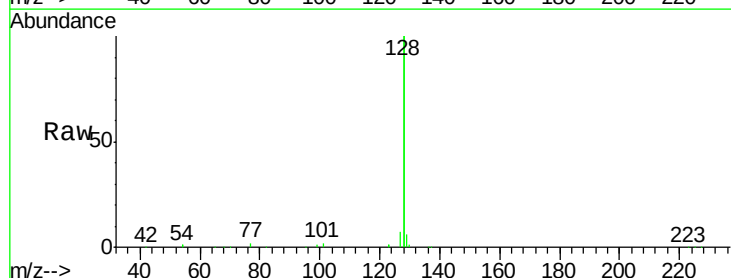
RT: 11.22 min Scan# 781

Delta R.T. 0.00 min

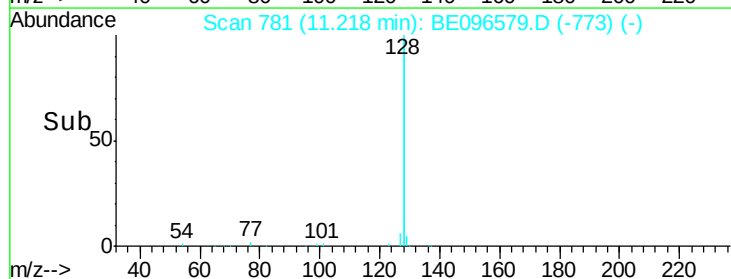
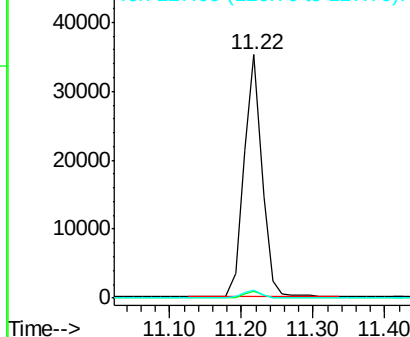
Lab File: BE096579.D

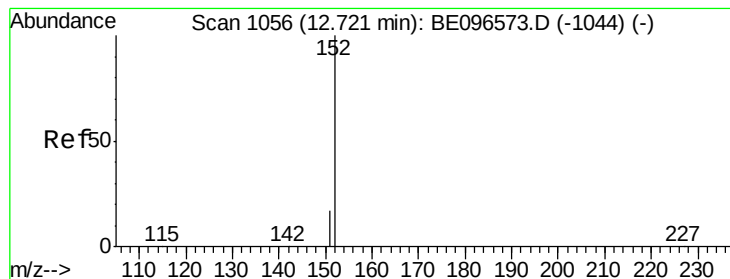
Acq: 15 May 2018 15:35

Tgt Ion:	128	Resp:	61008
Ion	Ratio	Lower	Upper
128	100		
129	2.9	2.6	3.8
127	3.4	2.8	4.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





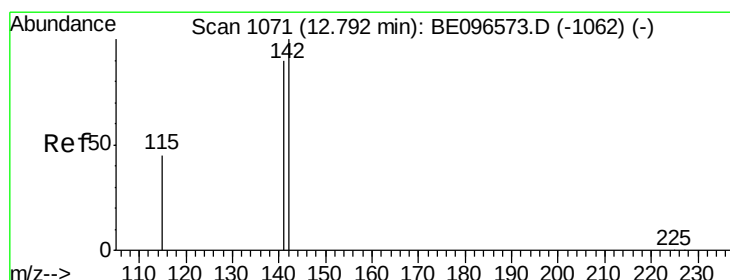
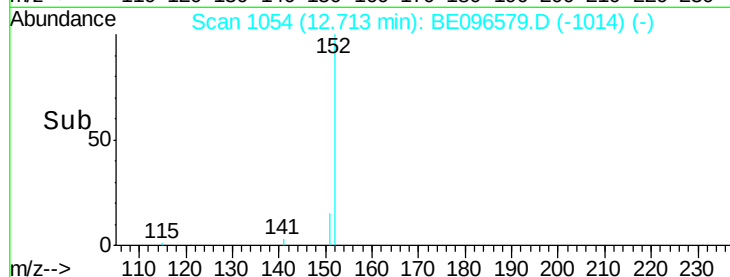
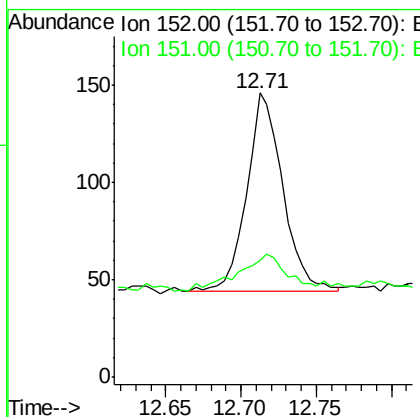
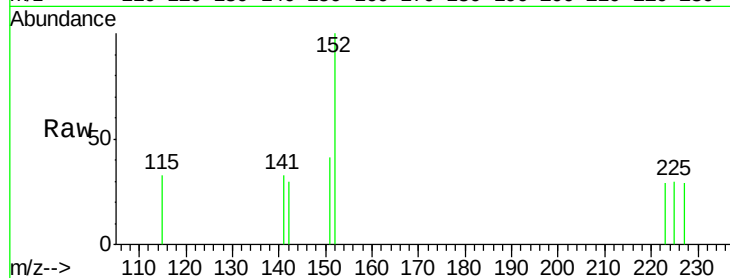
#11
 2-Methylnaphthalene-d10
 Concen: 0.037 ng
 RT: 12.71 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILD

Tot Ion:152 Resp: 170
 Ion Ratio Lower Upper
 152 100
 151 25.9 15.4 23.0#

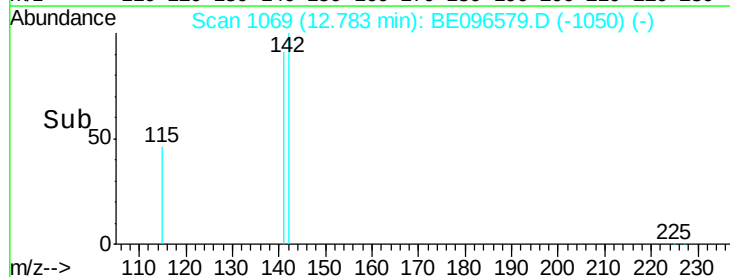
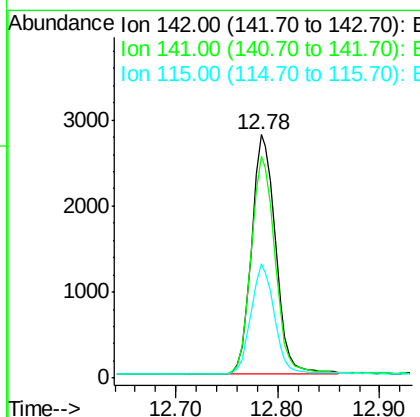
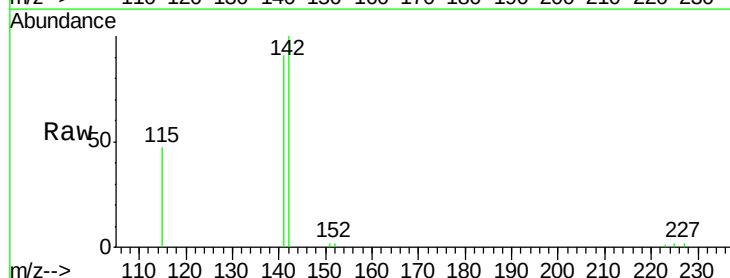
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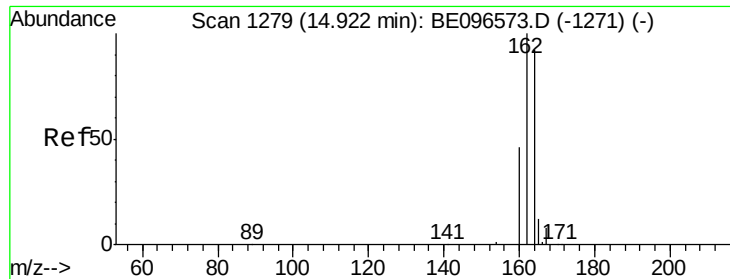
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#12
 2-Methylnaphthalene
 Concen: 0.898 ng
 RT: 12.78 min Scan# 1069
 Delta R.T. -0.01 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Tgt Ion:142 Resp: 4576
 Ion Ratio Lower Upper
 142 100
 141 91.0 70.4 105.6
 115 46.8 31.7 47.5





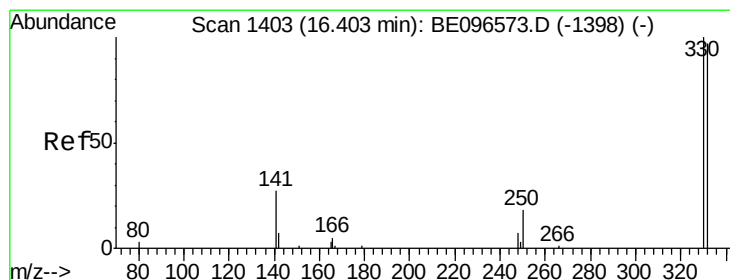
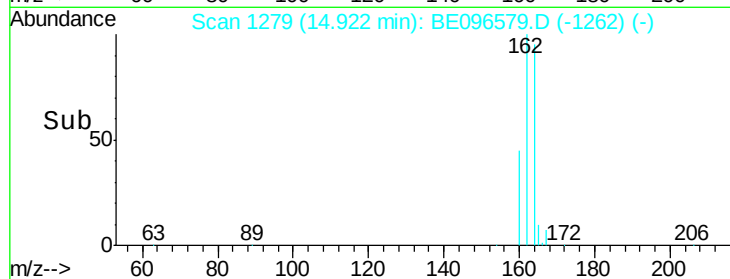
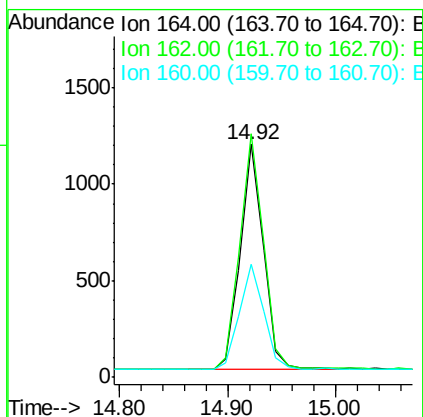
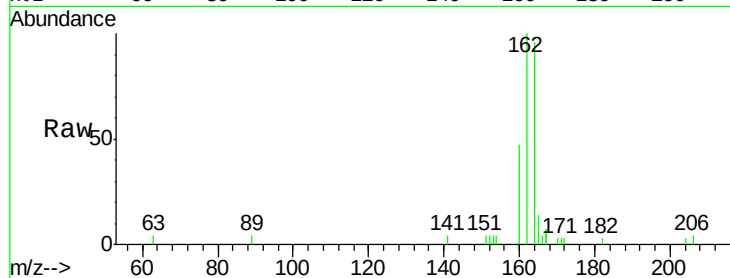
#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.92 min Scan# 1279
 Delta R.T. -0.00 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.6	83.1	124.7
160	48.7	37.1	55.7

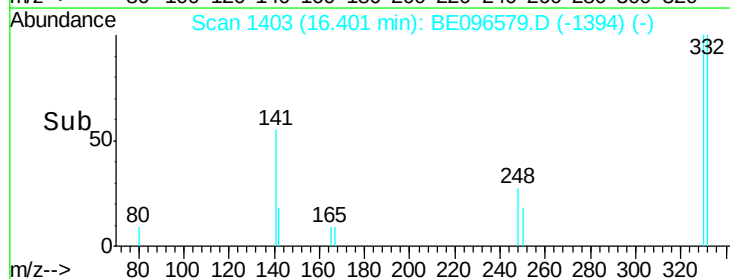
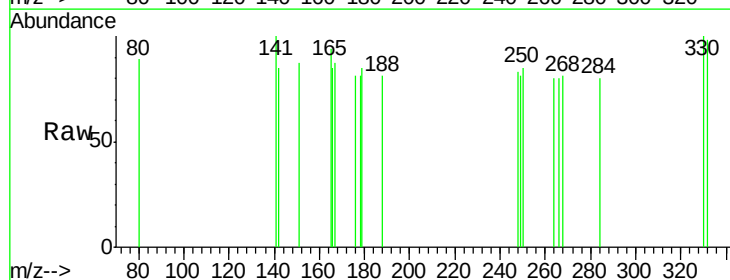
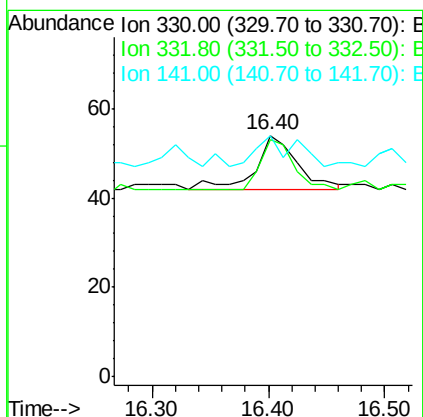
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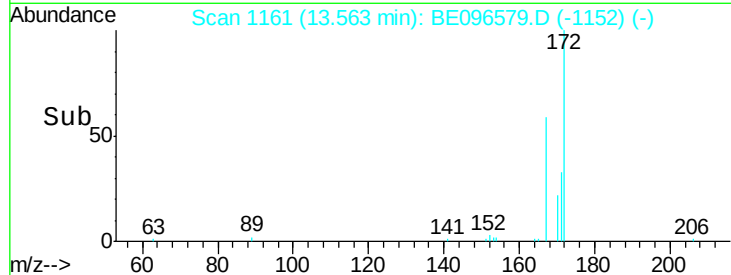
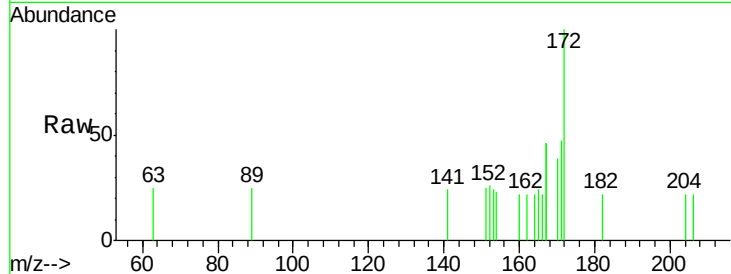
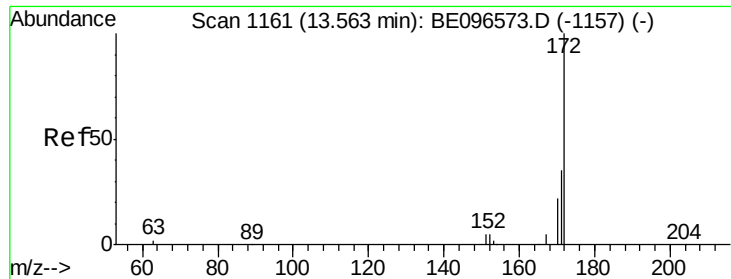
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#14
 2,4,6-Tribromophenol
 Concen: 0.045 ng
 RT: 16.40 min Scan# 1403
 Delta R.T. -0.00 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
330	100		
332	73.3	152.7	229.1#
141	53.3	33.7	50.5#





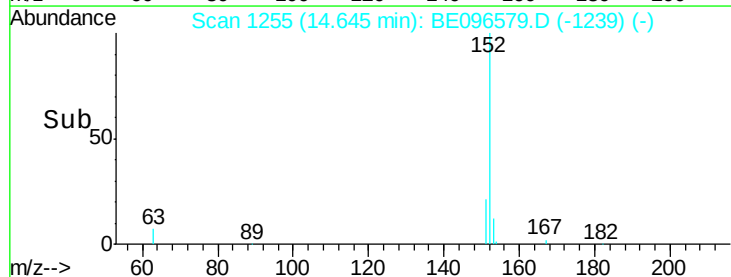
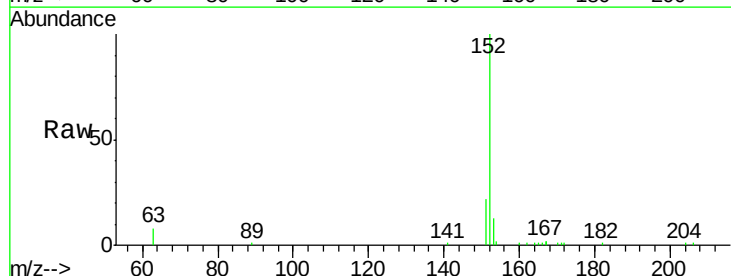
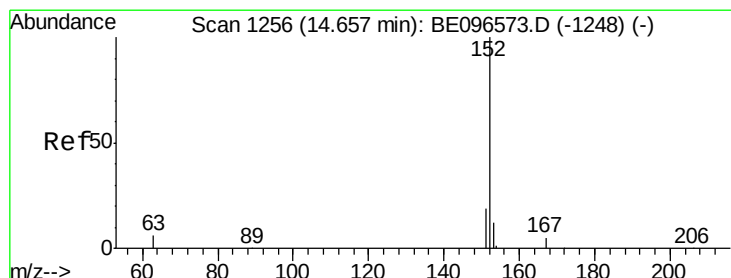
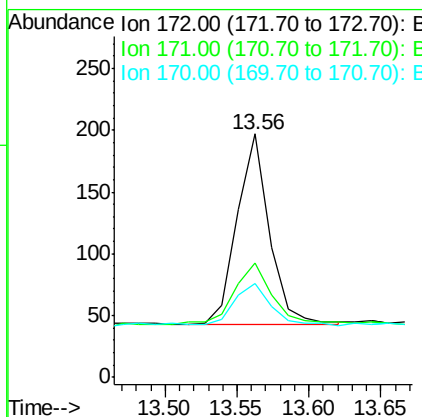
#15
2-Fluorobiphenyl
Concen: 0.033 ng
RT: 13.56 min Scan# 1161
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
172	100		
171	47.2	29.9	44.9#
170	38.6	21.8	32.8#

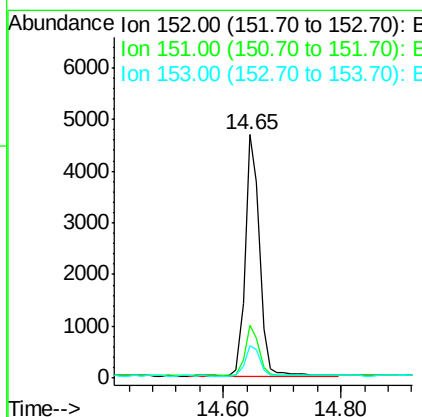
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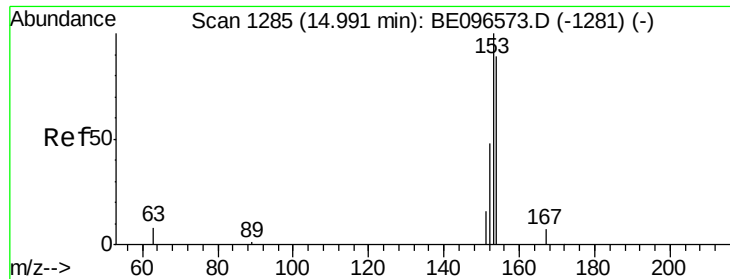
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#16
Acenaphthylene
Concen: 0.878 ng
RT: 14.65 min Scan# 1255
Delta R.T. -0.01 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.7	23.5
153	12.8	10.5	15.7





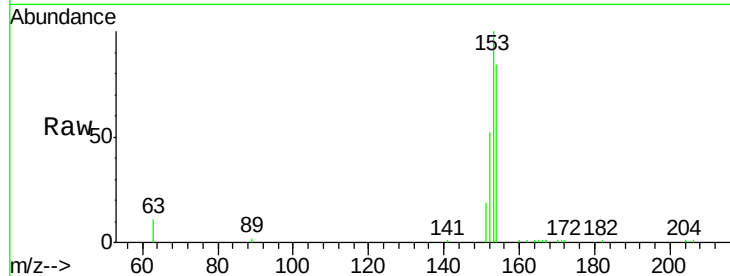
#17
Acenaphthene
Concen: 1.584 ng
RT: 14.98 min Scan# 1284
Delta R.T. -0.01 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
154	100		
153	115.6	89.2	133.8
152	57.7	42.0	63.0

Manual Integrations
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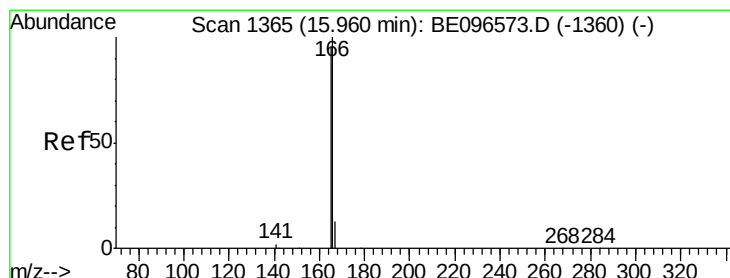
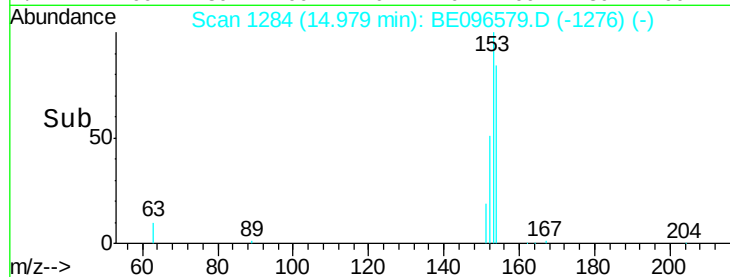
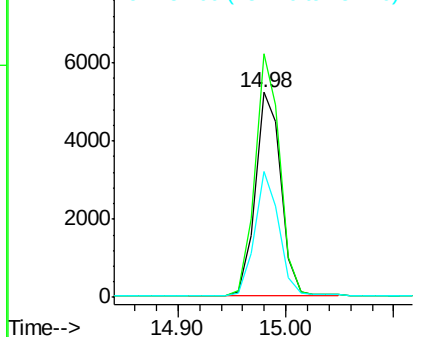


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18
Fluorene
Concen: 0.222 ng
RT: 15.96 min Scan# 1365
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

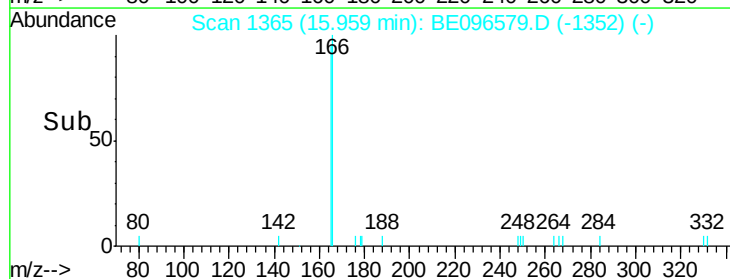
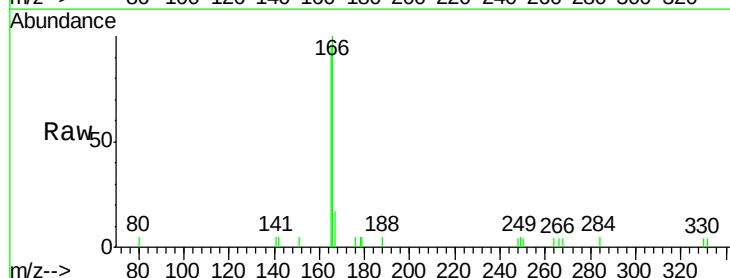
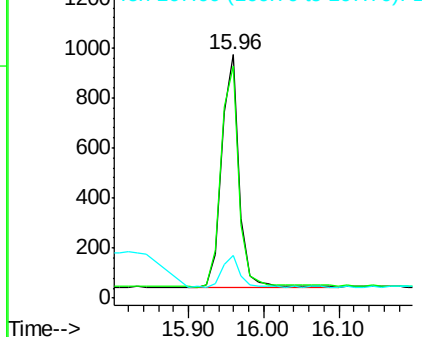
Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.4	77.8	116.6
167	13.1	42.4	63.6#

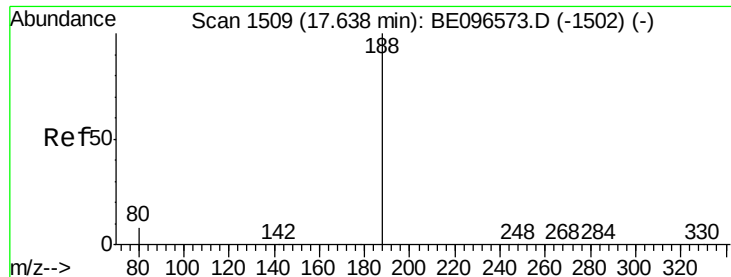
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





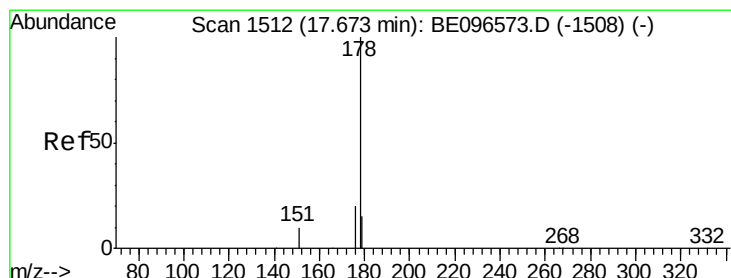
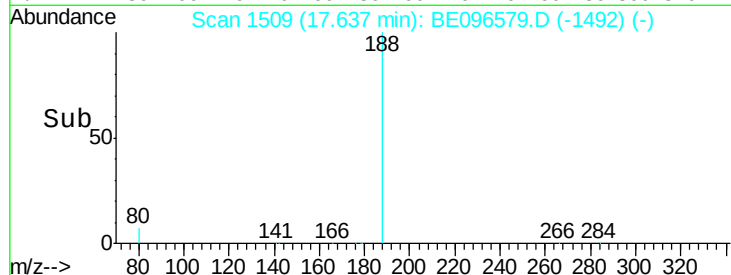
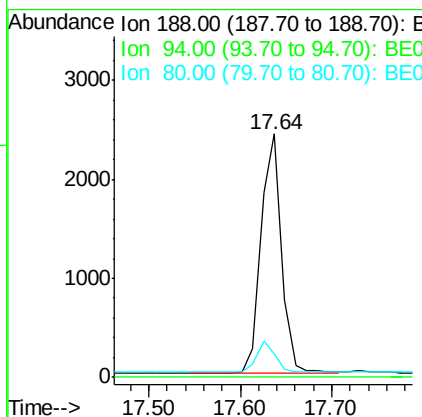
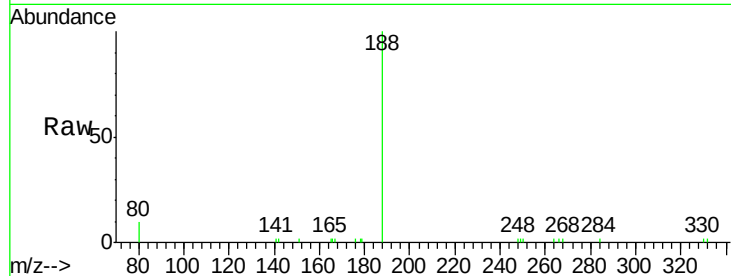
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.64 min Scan# 1509
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	0.0	3.9	5.9#
80	9.5	3.6	5.4#

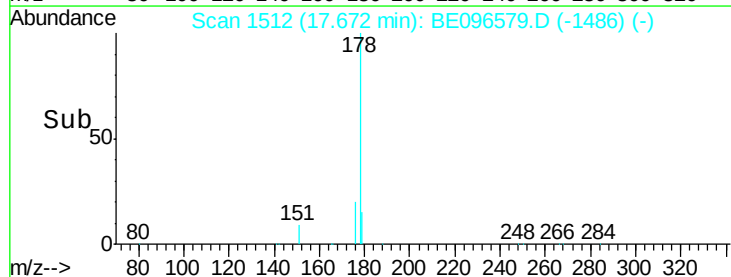
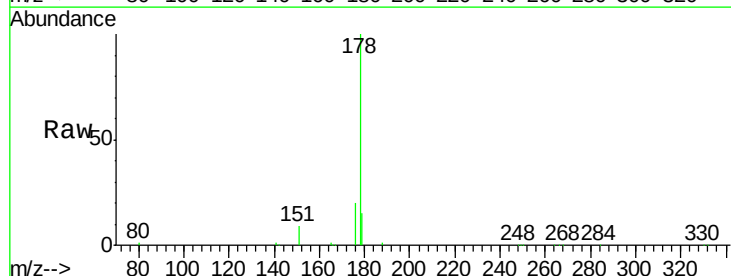
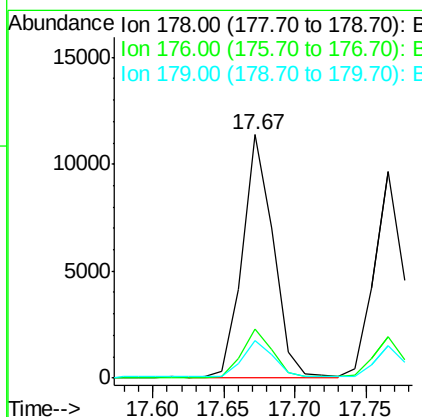
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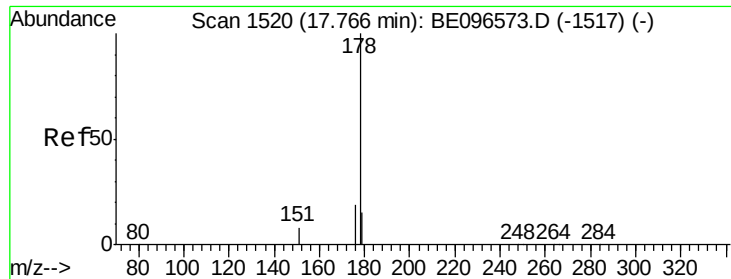
Sohil
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#23
Phenanthrene
Concen: 1.598 ng
RT: 17.67 min Scan# 1512
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	15.1	22.7
179	15.1	11.8	17.6





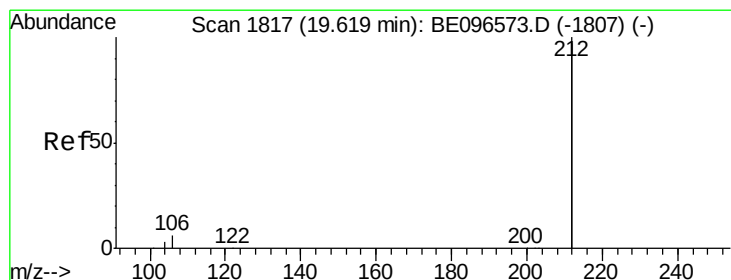
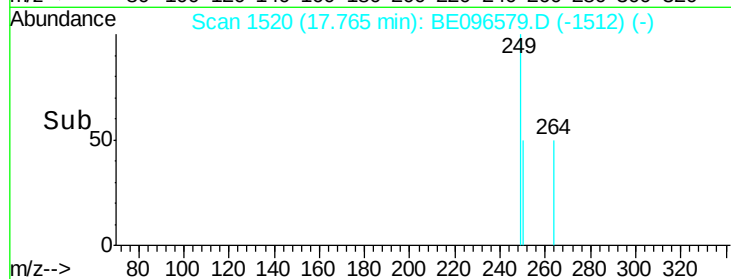
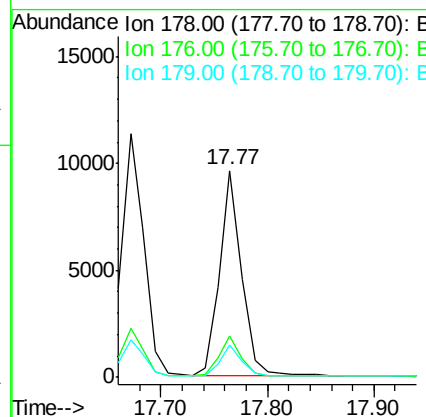
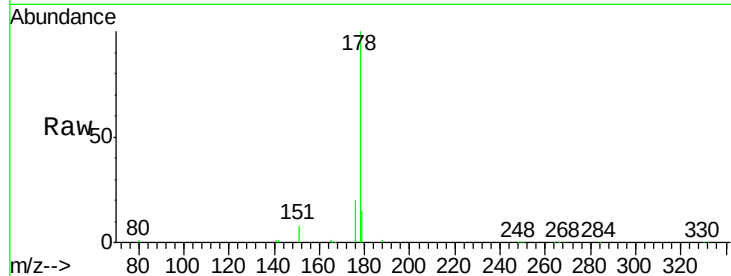
#24
 Anthracene
 Concen: 1.398 ng
 RT: 17.77 min Scan# 1520
 Delta R.T. -0.00 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	12.8	19.2#
179	15.0	13.0	19.6

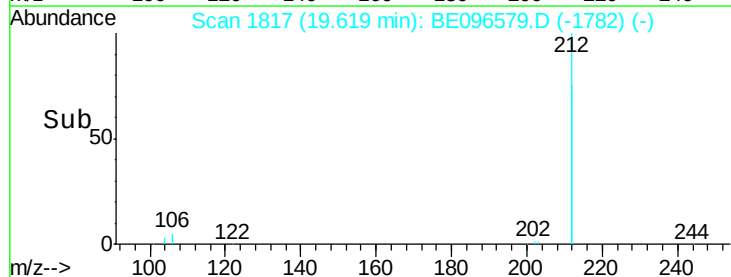
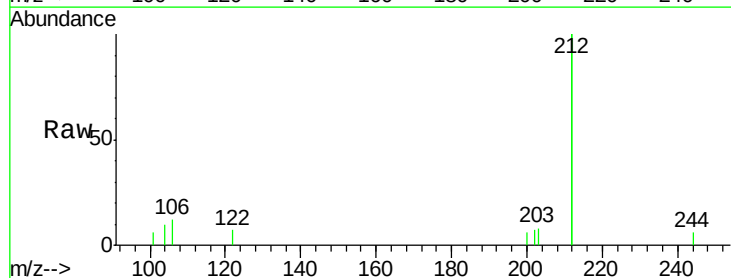
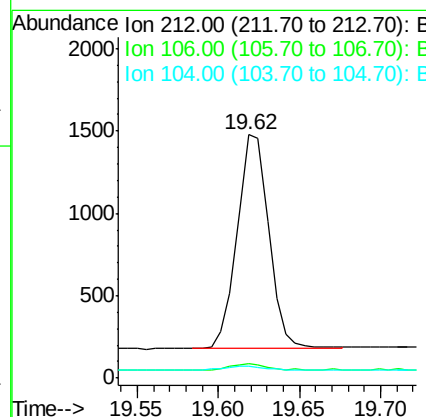
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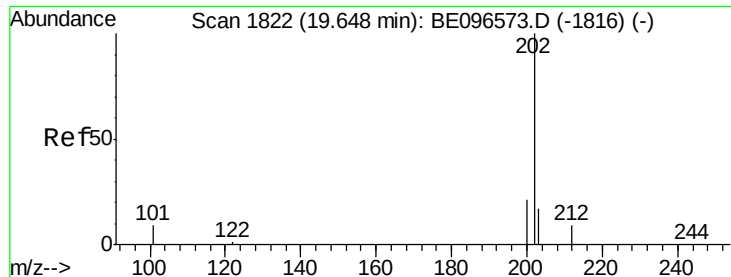
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#25
 Fluoranthene-d10
 Concen: 0.039 ng
 RT: 19.62 min Scan# 1817
 Delta R.T. -0.00 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
212	100		
106	3.2	2.8	4.2
104	2.3	1.6	2.4





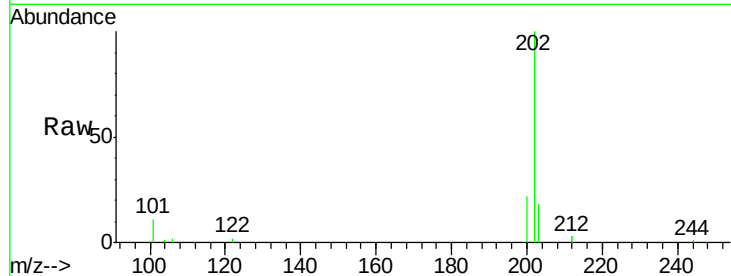
#26
Fluoranthene
Concen: 0.382 ng
RT: 19.65 min Scan# 1822
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

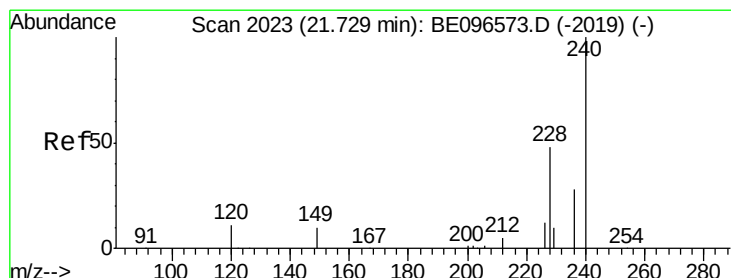
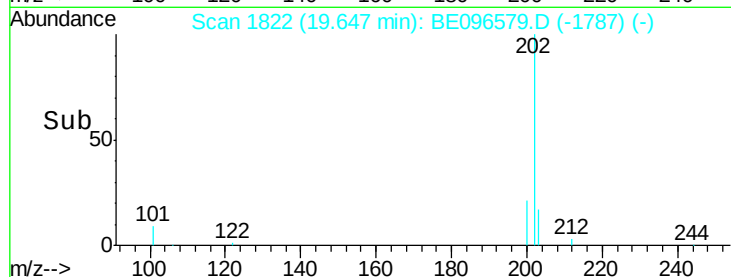
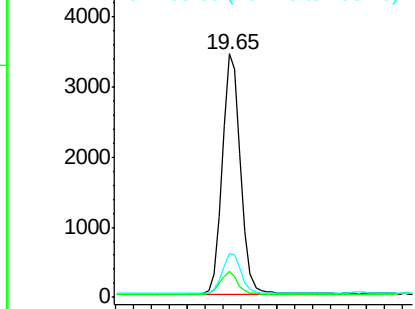
Tot Ion	Ratio	Lower	Upper
202	100		
101	8.8	9.8	14.8#
203	17.2	13.7	20.5

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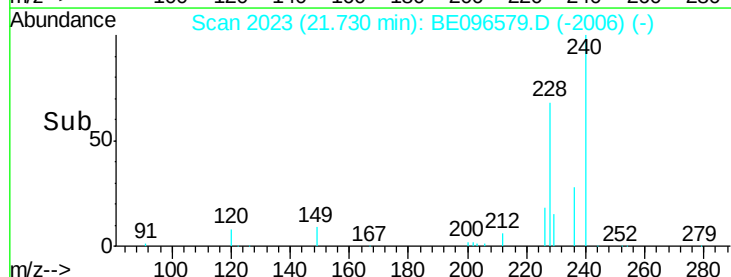
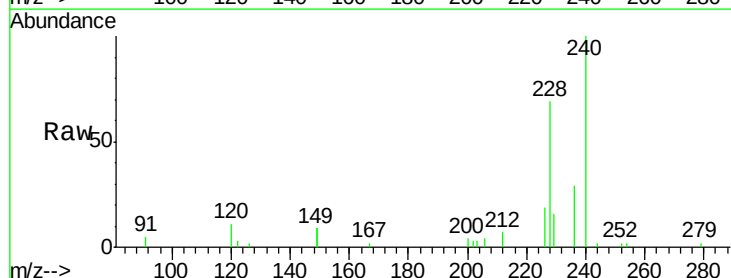
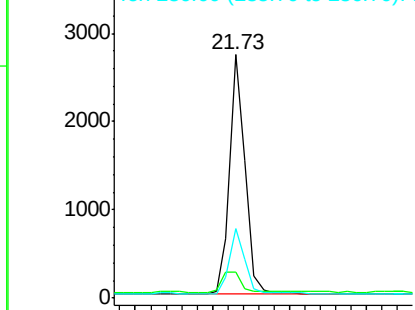
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

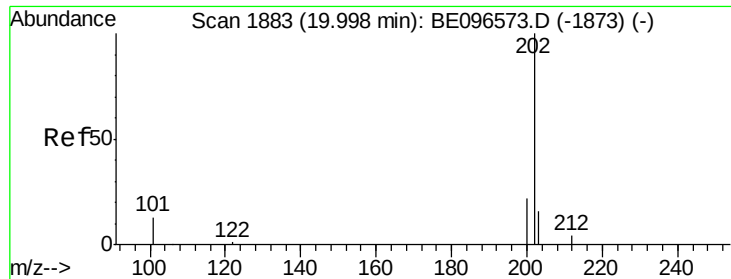


#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.73 min Scan# 2023
Delta R.T. 0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.7	5.5	8.3#
236	28.8	20.7	31.1

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





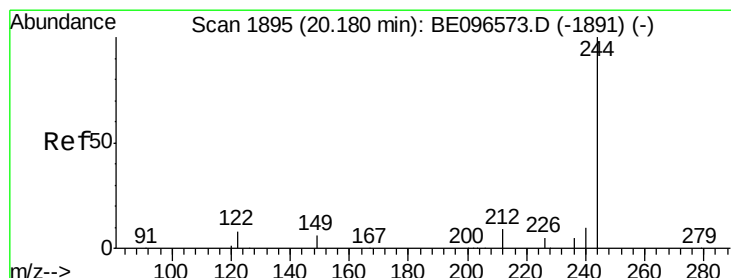
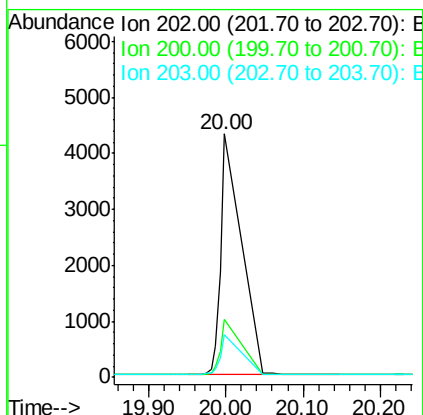
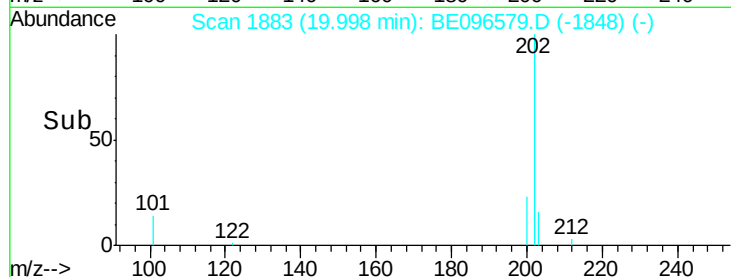
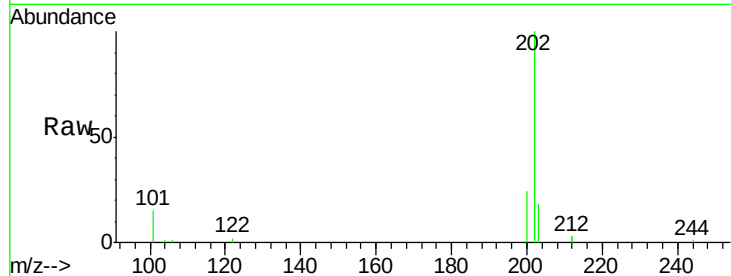
#28
Pvrene
Concen: 0.687 ng
RT: 20.00 min Scan# 1883
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILD

Tot Ion	Ratio	Lower	Upper
202	100		
200	23.5	16.6	25.0
203	17.4	13.8	20.8

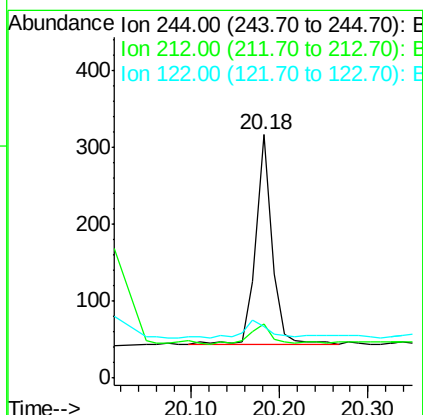
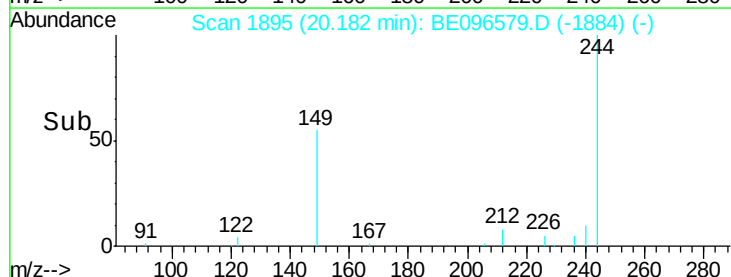
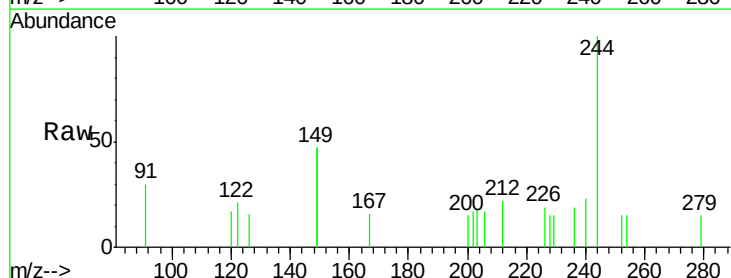
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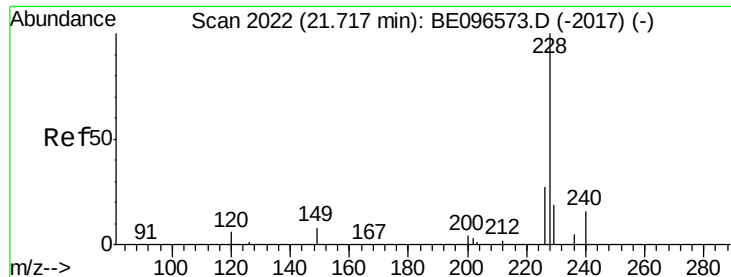
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#29
Terphenyl-d14
Concen: 0.040 ng
RT: 20.18 min Scan# 1895
Delta R.T. 0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
244	100		
212	22.1	25.4	38.0#
122	20.8	8.1	12.1#





#30

Benzo(a)anthracene

Concen: 0.938 ng

RT: 21.72 min Scan# 2022

Delta R.T. 0.00 min

Lab File: BE096579.D

Acq: 15 May 2018 15:35

Instrument :

BNA_E

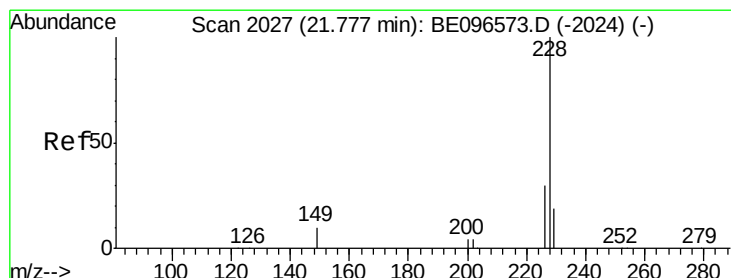
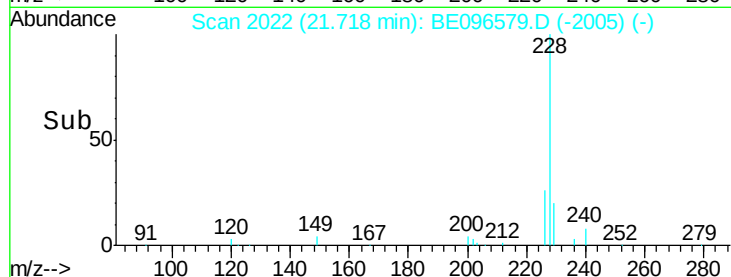
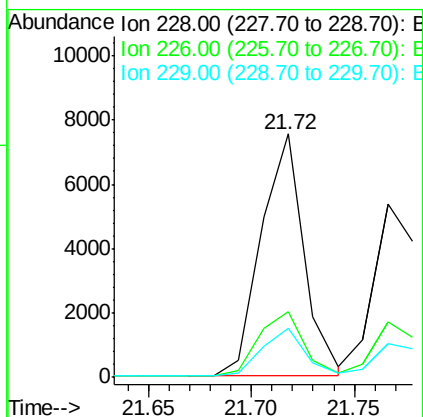
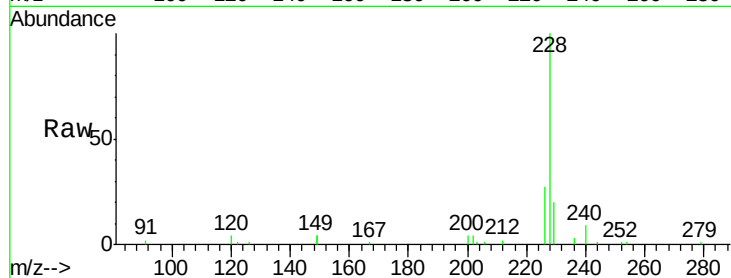
ClientSampleId :

PT-PAH-SOILDL

Tot Ion:228	Resp:	10928
Ion Ratio	Lower	Upper
228	100	
226	26.9	24.0 36.0
229	20.2	16.0 24.0

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#31

Chrysene

Concen: 0.686 ng

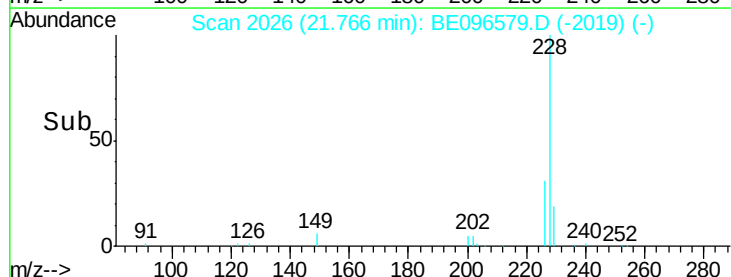
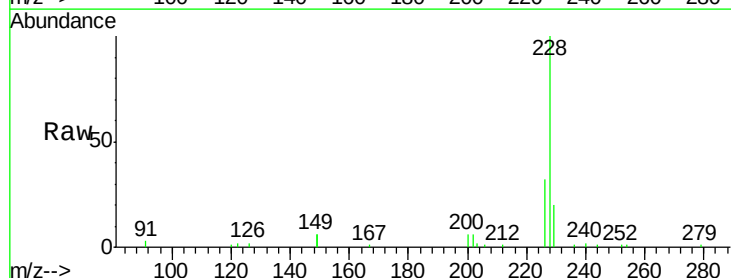
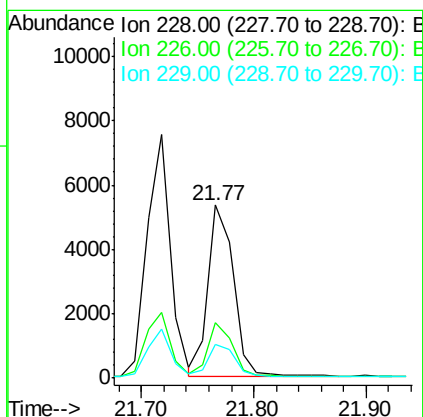
RT: 21.77 min Scan# 2026

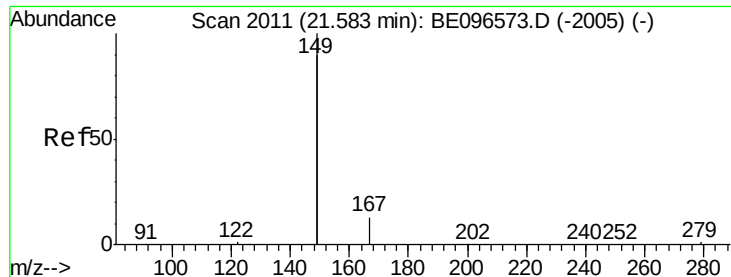
Delta R.T. -0.01 min

Lab File: BE096579.D

Acq: 15 May 2018 15:35

Tgt Ion:228	Resp:	8323
Ion Ratio	Lower	Upper
228	100	
226	32.1	24.0 36.0
229	19.8	16.0 24.0





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.154 ng

RT: 21.58 min Scan# 2011

Delta R.T. 0.00 min

Lab File: BE096579.D

Acq: 15 May 2018 15:35

Instrument :

BNA_E

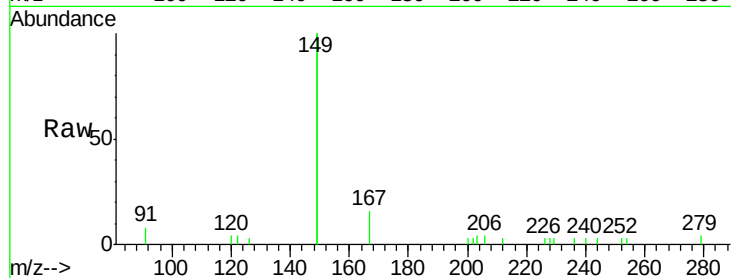
ClientSampleId :

PT-PAH-SOILDL

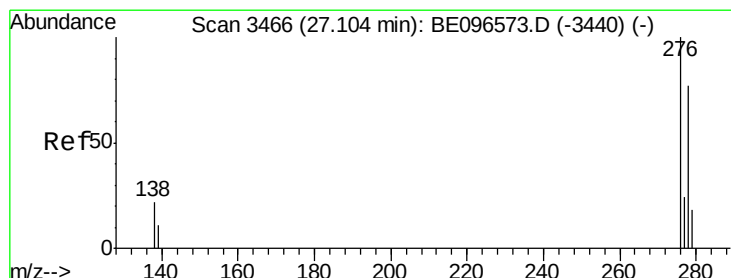
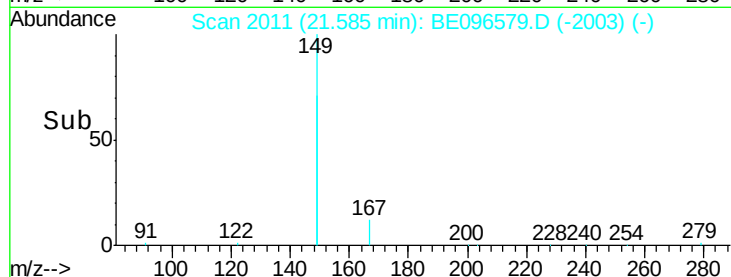
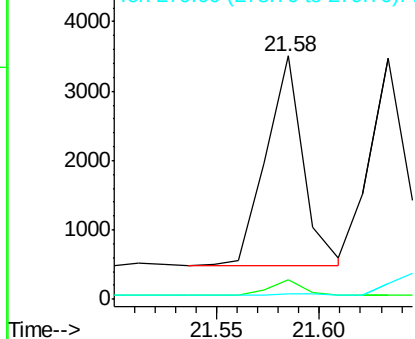
Tot Ion:	149	Resp:	3843
Ion Ratio	Lower	Upper	
149	100		
167	7.0	5.4	8.0
279	0.0	0.7	1.1#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.429 ng

RT: 27.10 min Scan# 3464

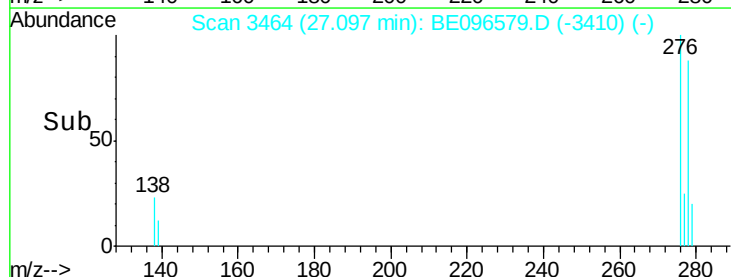
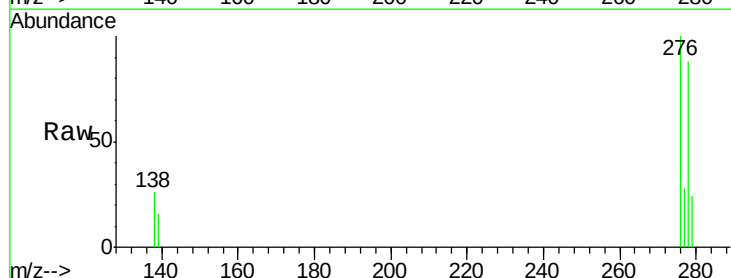
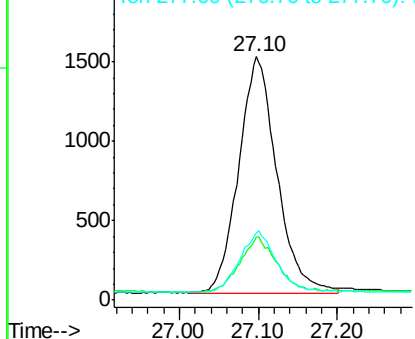
Delta R.T. -0.01 min

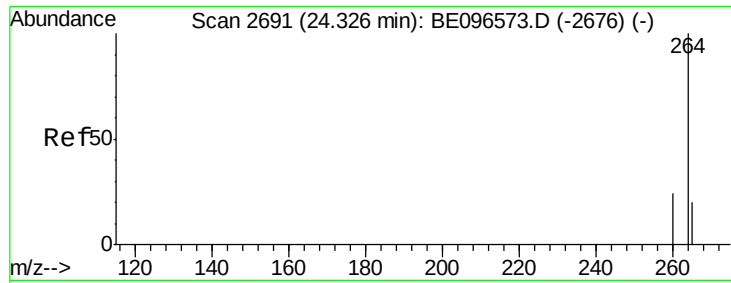
Lab File: BE096579.D

Acq: 15 May 2018 15:35

Tgt Ion:	276	Resp:	4992
Ion Ratio	Lower	Upper	
276	100		
138	22.4	22.5	33.7#
277	24.7	19.9	29.9

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





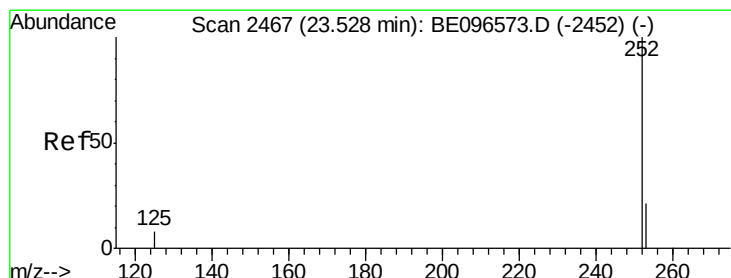
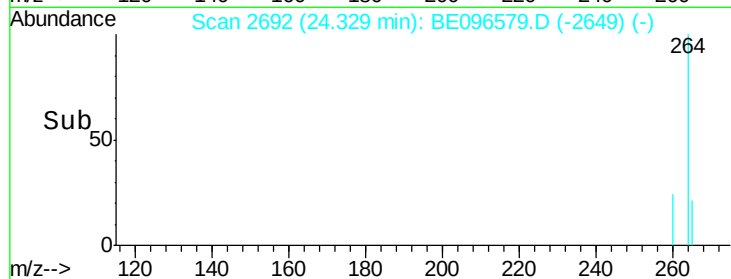
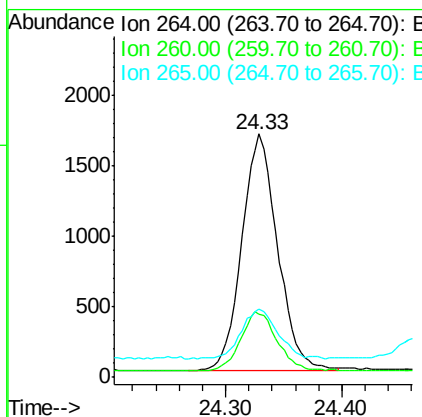
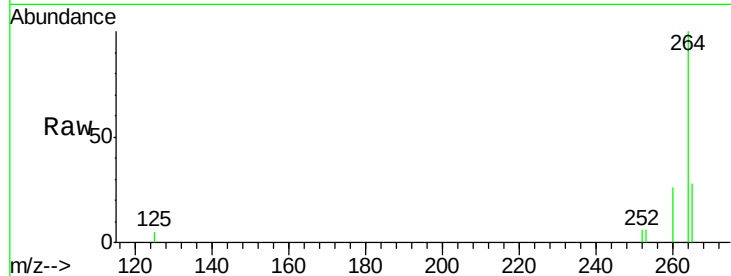
#34
 Pervlene-d12
 Concen: 0.400 ng
 RT: 24.33 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.5	30.7
265	28.2	22.8	34.2

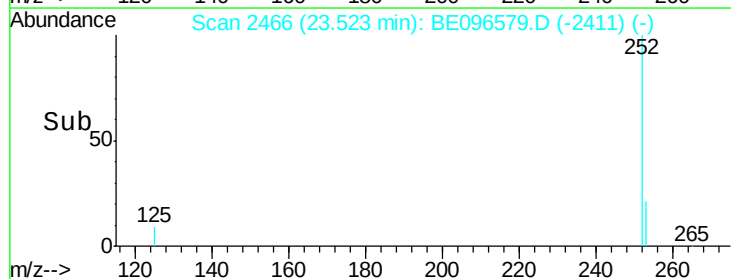
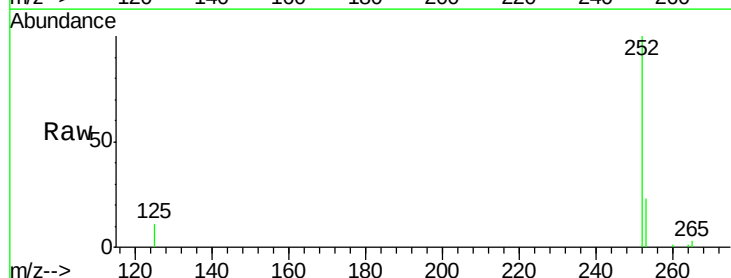
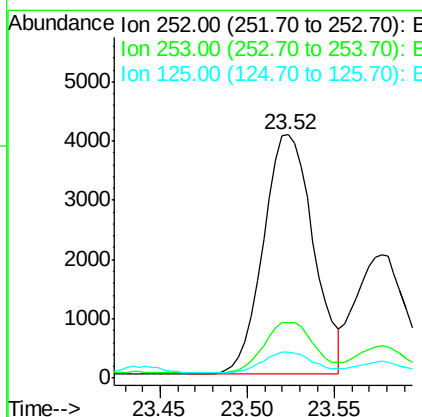
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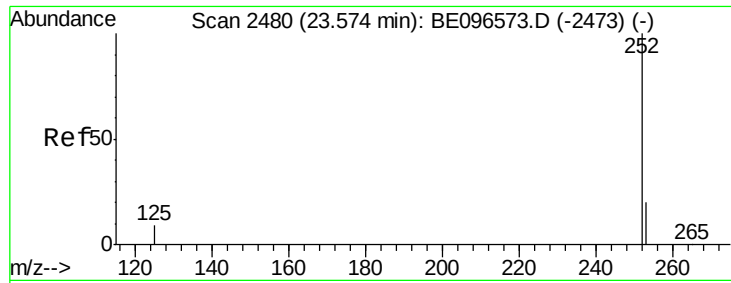
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#35
 Benzo(b)fluoranthene
 Concen: 0.732 ng
 RT: 23.52 min Scan# 2466
 Delta R.T. -0.00 min
 Lab File: BE096579.D
 Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	20.0	30.0
125	10.7	16.0	24.0





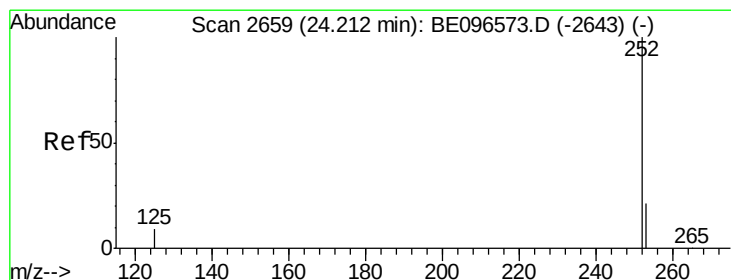
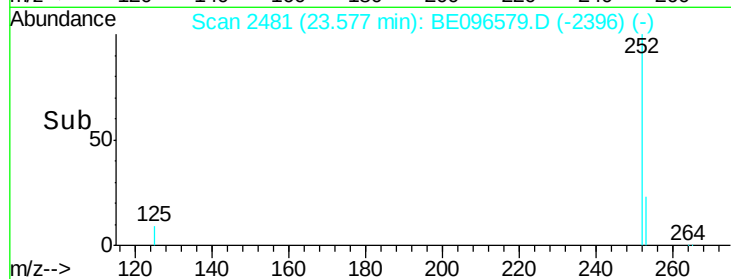
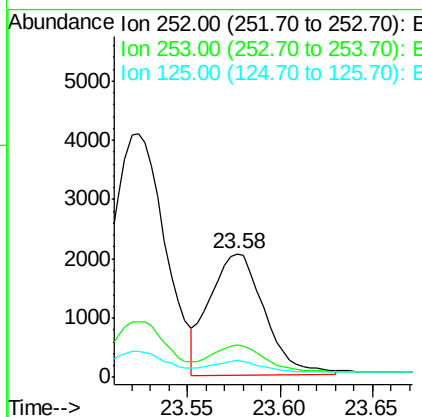
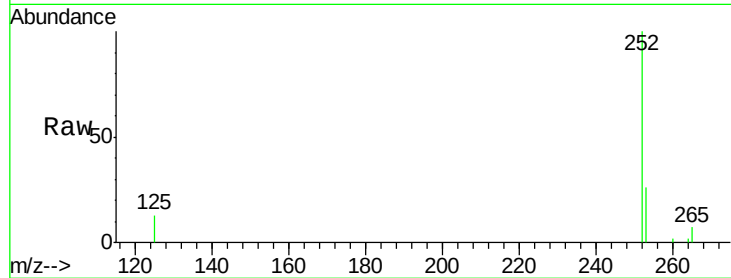
#36
Benzo(k)fluoranthene
Concen: 0.360 ng/mL
RT: 23.58 min Scan# 2481
Delta R.T. 0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.4	16.0	24.0#
125	13.4	8.0	12.0#

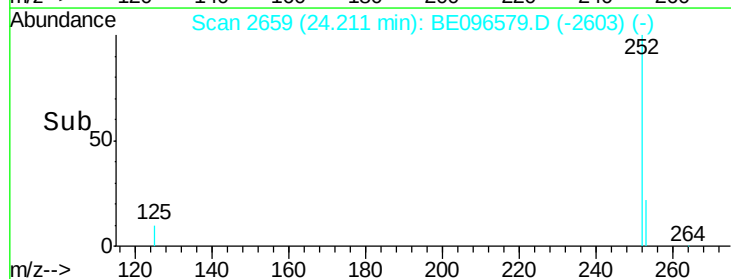
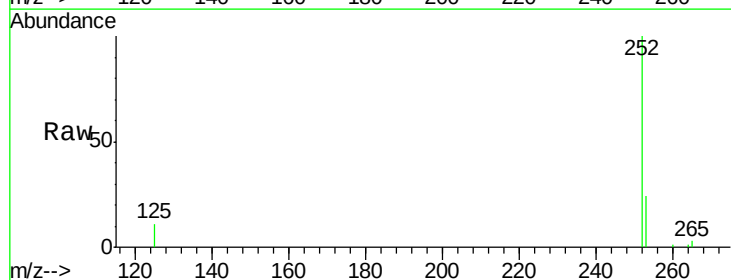
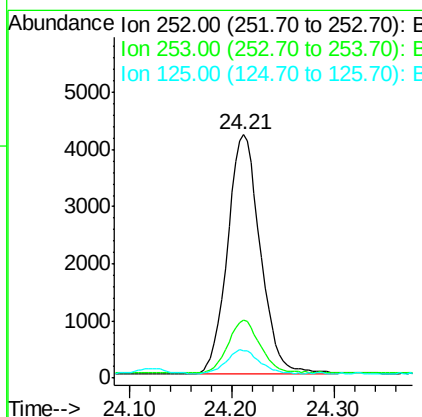
Manual Integrations
APPROVED

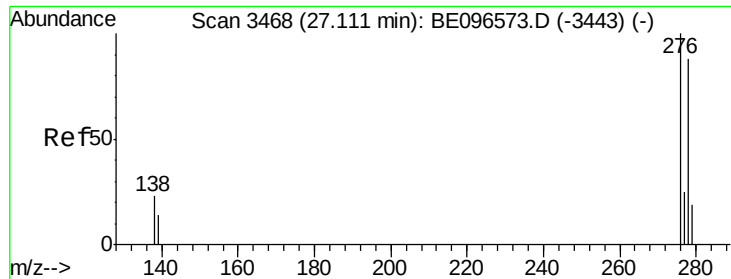
Sohil
5/16/2018 6:42:26 PM



#37
Benzo(a)pyrene
Concen: 0.898 ng/mL
RT: 24.21 min Scan# 2659
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	16.0	24.0#
125	11.2	12.0	18.0#





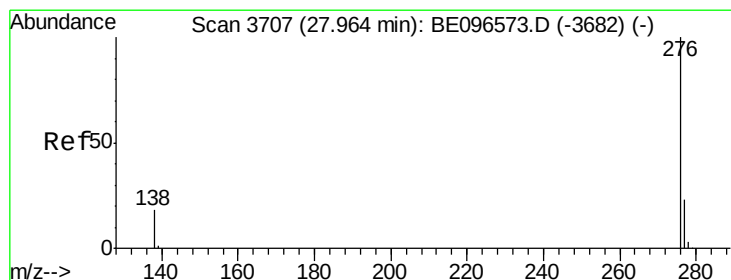
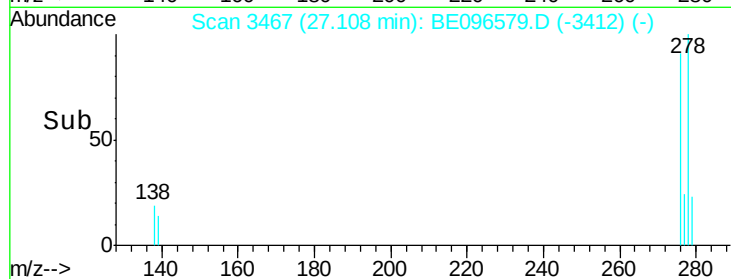
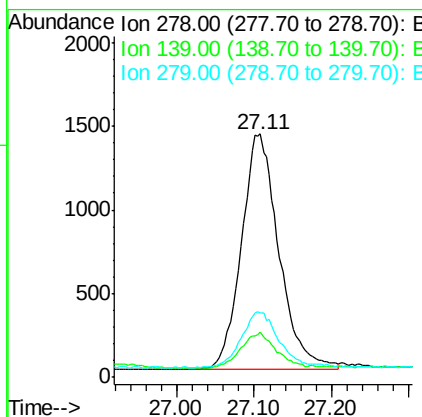
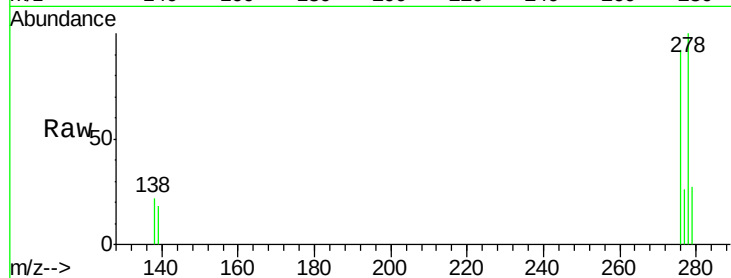
#38
Dibenzo(a,h)anthracene
Concen: 0.492 ng
RT: 27.11 min Scan# 3467
Delta R.T. -0.00 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOILDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.3	16.0	24.0
279	26.5	20.0	30.0

Manual Integrations
APPROVED

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5/16/2018 6:42:26 PM



#39
Benzo(g,h,i)perylene
Concen: 0.809 ng
RT: 27.96 min Scan# 3705
Delta R.T. -0.01 min
Lab File: BE096579.D
Acq: 15 May 2018 15:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	16.0	24.0#
138	20.3	20.0	30.0

